



Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:



B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads



C. Correction of a Stream Bank or Slope Related Problem



D. Structure/culvert upgrades

Town/Organization: Town of Enosburgh

Project Name: Woodward Neighborhood Project

Road Name: Woodward Neighborhood Road TH #: 11 Structure # (if applicable): _____

Road Type: Unpaved ☐ Uncurbed ☐
 Class 3 ☐

Watershed: Beaver Meadow Brook

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):
Ditch erosion on the south side of the road along an 8% - 10% grade. Erosion is starting to wash into the edge of the road.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping

ditch and stone lining, working from the top of the project down to the bottom):

Clean and reshape ditch, place layer of filter fabric, line ditch with type I stone fill starting at the top and working down to the bottom, construct stone dikes, seed and mulch disturbed areas outside of stone lining

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

By stone lining this ditch it will eliminate the ditch erosion sediment from washing into the Beaver Meadow Brook, which is a tributary to the Tyler Branch Brook, that in turn is a tributary to the Missisquoi River and eventually Lake Champlain.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'



Progress to Date:

None

Is there an emergency reason this project must be completed quickly? If yes, please explain:

No

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

☐ Yes: _____

☒ No

Please list any professionals you may have contacted for assistance with this project (ANR River

Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):

Chris Brunelle - River Management Engineer

Jim Cota - District Project Manager

Shannon Morrison - District Wetlands Ecologist

Bethany Remmers - (NRPC) Assistant Director

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Yes

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

Yes



Describe how the grant funds will be spent and/or attach a project budget:

Please see " Description of Project and how you plan to complete the work "

The grant funds will be spent to reimburse the highway budget for the cost of the materials.

How do you plan to meet the required 20% match on this grant?:

Plan on meeting the 20% match through in-kind labor and materials.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 10,655.68

Estimated Total Project Cost (including 20% local match): \$ 13,319.60


Estimated Completion Date: 10/01/2016

REQUIRED ATTACHMENTS:

- ☒ Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- ☒ Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- ☒ Sketch of proposed erosion control measures, including:
 - ☒ Distances (ft.)
 - ☒ Estimate of waste & borrow quantities
 - ☒ Approx. location of town/other right-of-way and/or property lines
- ☒ Photo(s) of the project area.
- ☐ Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- ☒ If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- ☒ Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

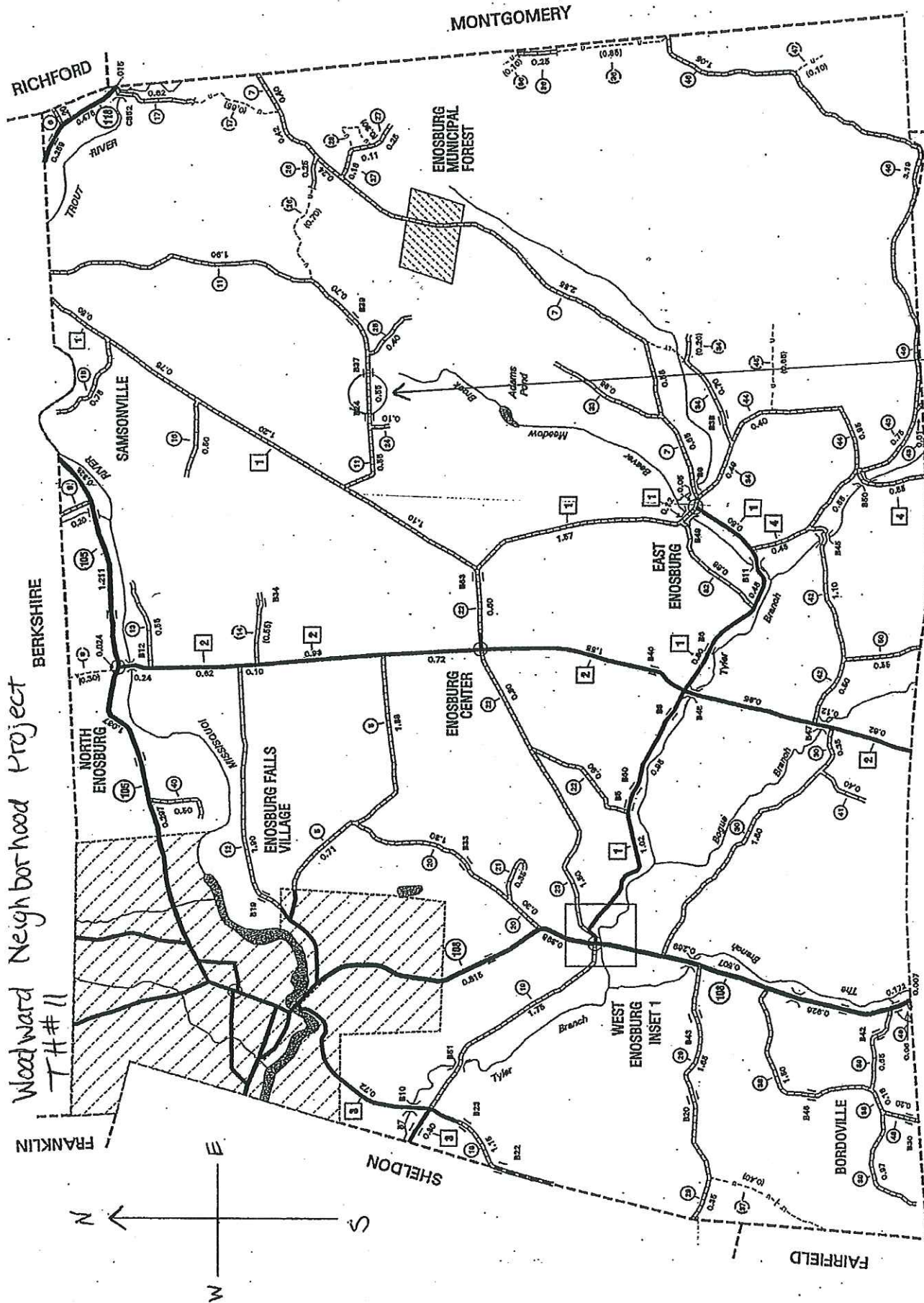
Name: 

Title: Selectboard Chairman

| Cost Estimate Worksheet | |
|--|-------------------------------|
| Town and Road Name: | Project Name: |
| Town of Enosburgh Woodward Neighborhood Road | Woodward Neighborhood Project |

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Woodward Neighborhood Project
TH# 11



8/10 of a mile east of the
Perley Road TH#1

BAKERSFIELD

Better Back Roads Grant

Application 2016

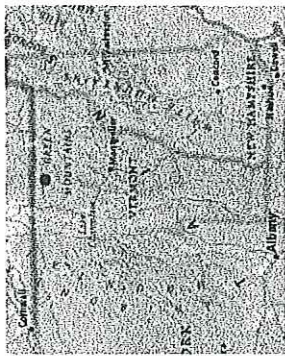
POLITICAL SUBDIVISIONS
STATE BOUNDARY
COUNTY BOUNDARY

HIGHWAYS
INTERSTATE
STATE HIGHWAY SYSTEM
TOWN HIGHWAY SYSTEM
UNPAVED OR UNTRAVELED
DISCONTINUED
LEGAL TRAIL
FOOT TRAIL



Enosburgh Beaver Meadow Brook Woodward

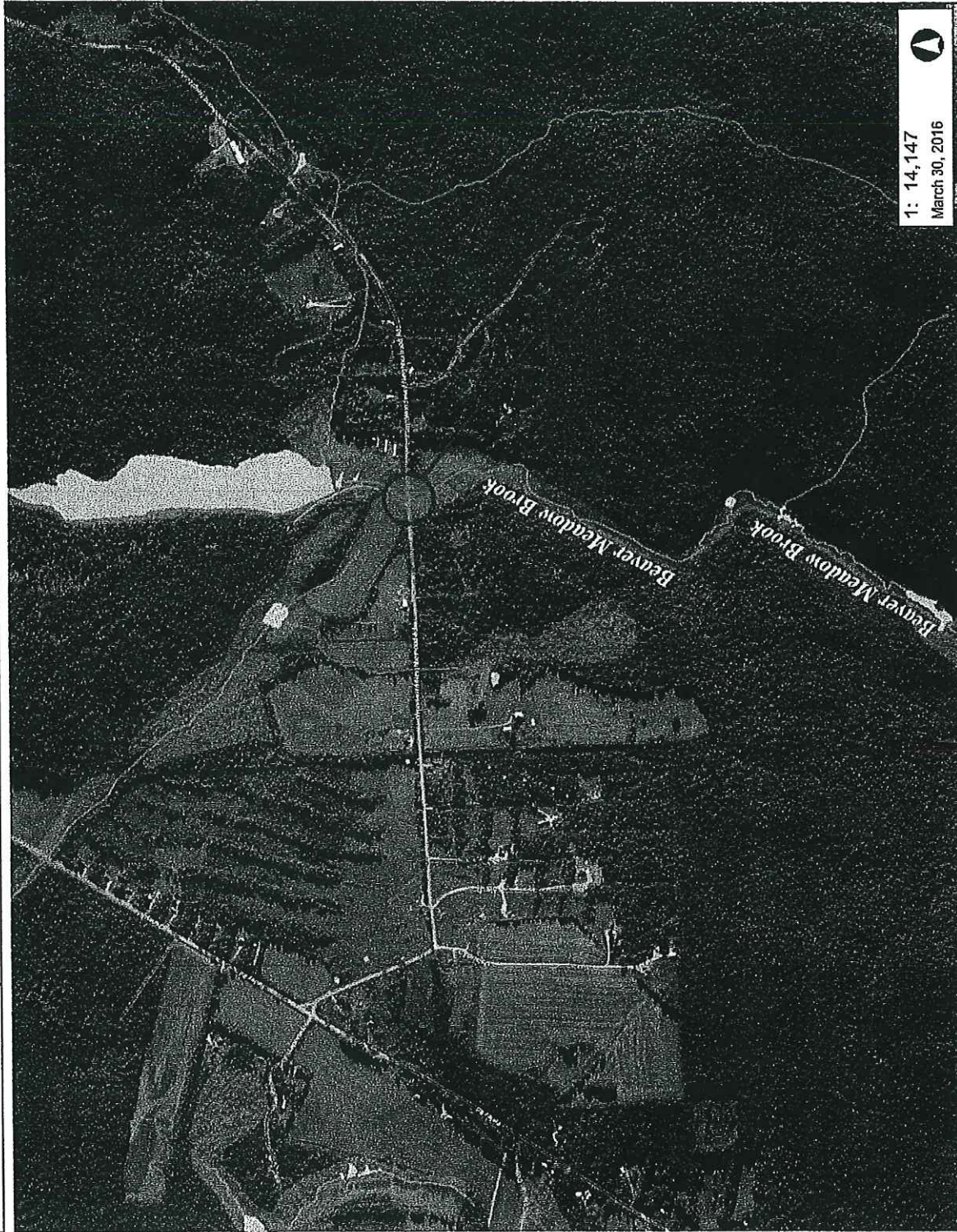
vermont.gov



- LEGEND**
- Wetlands - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
 - Waterbody
 - Stream
 - Town Boundary

NOTES

Site Locus



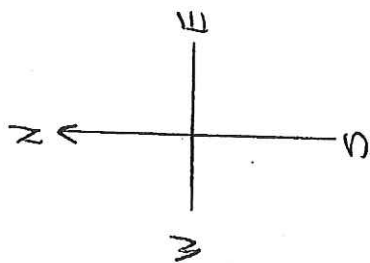
1: 14,147
March 30, 2016

719.0 0 360.00 719.0 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources
1" = 1179 FL 1cm = 141 Meters
THIS MAP IS NOT TO BE USED FOR NAVIGATION
DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

Woodward Neighborhood
Project 695 LF +/-

Bridge
#37

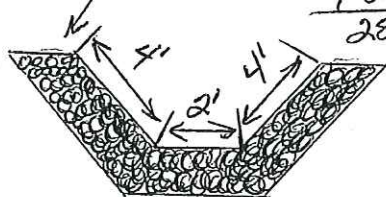
Beaver Meadow Brook
Flow →



Type I Stone
Fill

695 X 10 X 1


$$27 = 257 \text{ cy} \\ + 28 \\ \hline 285 \text{ cy}$$



Filter Fabric

695 X 8

$$9 = 618 \text{ sy}$$

 = 3 Stone
Check Dams

Note: Bridge #37
is a concrete box
culvert installed after
1997 flood.

Note: seed + mulch
all disturbed areas
outside of stone lining

Note: added 28cy
of type I stone
fill to construct
stone check dams.

49.5'
Right of Way

Town right-of-way
is 3 rod 49.5'
24'9" from center
of traveled portion.

695 LF +/-

Estimated Amount
of Waste + Borrow

695' X 10' X 1'

$$27 = 257 \text{ cy}$$

↑
Ditch Flow

Driveway w/ 15" culvert

DITCHES

■ size ditches so they are large enough to handle runoff from the drainage area

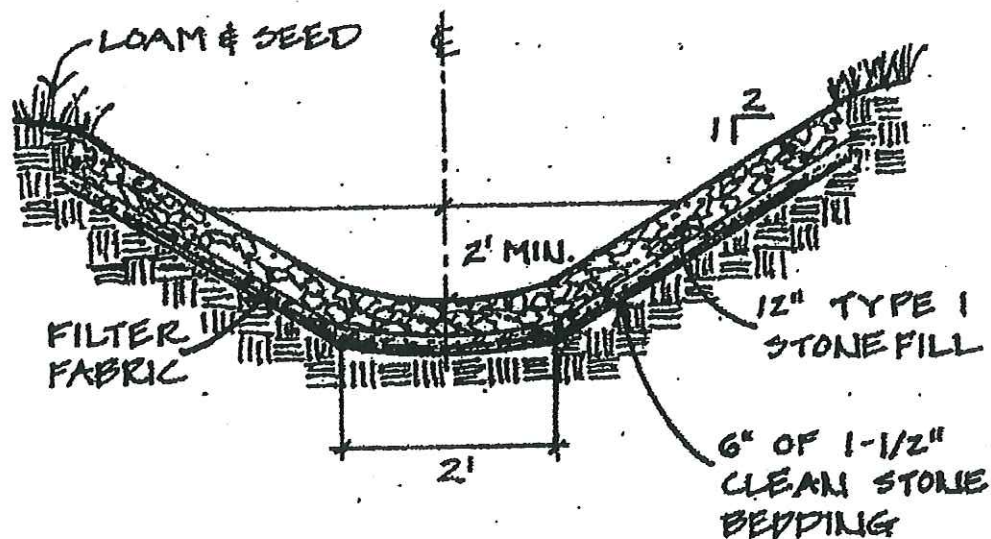
■ the preferred equipment for creating ditches is a rubber-tired excavator with an articulated bucket

■ line ditches which have a less than 5% slope with grass in order to filter sediments

■ line ditches which have a greater than 5% slope with riprap

■ line ditches as soon as possible to prevent erosion and to maintain the ditch profile

■ all ditches need an outlet; standing water weakens roads



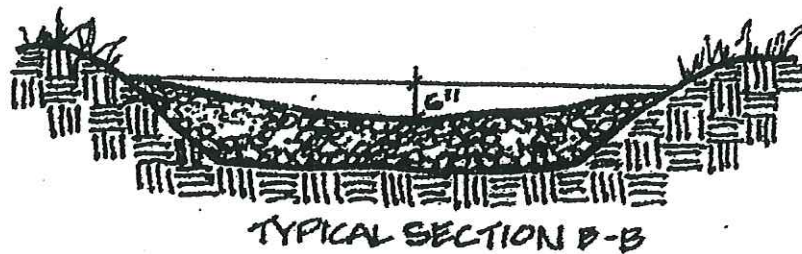
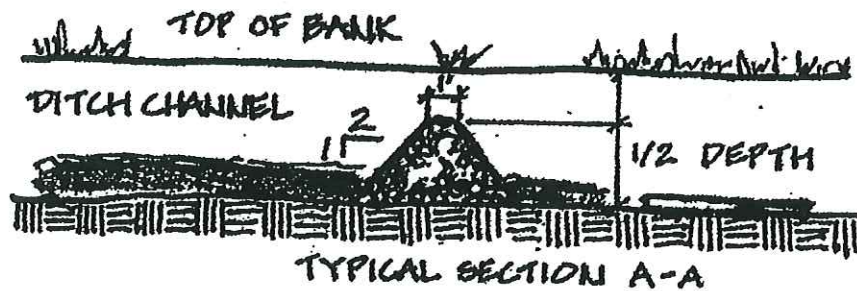
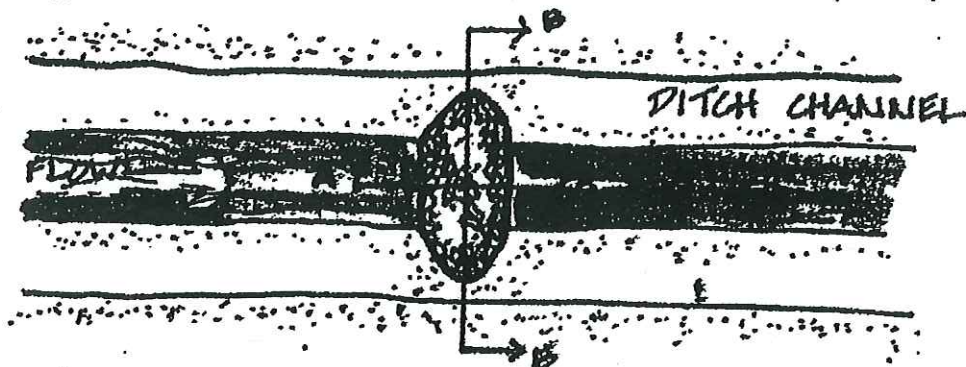
DETAIL - STONE LINED DITCH

DITCHES

■ stone dikes

- constructed of stone large enough to handle the expected velocity of water
- more permanent than most other types of controls

- can be easily expanded if necessary
- the smaller the stone size the more sediment is removed.
- easy installation



DETAIL - STONE DIKES

Top View looking down hill.



↖
end of 15" drive culvert

View Near the bottom showing Scars into the road edge.



✉ Reply all | ▼ 🗑 Delete Junk | ▼ ...

✕

Woodard Neighborhood Road ditch

| BC Brunelle, Chris <Chris.Brunelle@vermont.gov>

👍 ✉ Reply all | ▼

To: Enosburgh Highway Department; ✉

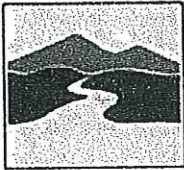
Wed 5:25 PM

Inbox

Joey,

As we discussed today in the field, I support your efforts to prevent sedimentation into Beaver Meadow Brook and associated wetland by reshaping and improving the narrow "V" shaped incising ditch, with a stone lined trapezoidal shaped ditch on Woodard Neighborhood Road. In this section of the road the slope exceeds 5% by a considerable amount. Good luck in securing a grant, I know you spend considerable time before and after working hours to fill out the paperwork on your own.

Sincerely,

VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION**WATERSHED
MANAGEMENT DIVISION**

RIVERS PROGRAM

Christopher Brunelle, River Management Engineer

111 West Street, Essex Jct., VT 05452

Cell/text: 802-777-5328

Email: chris.brunelle@vermont.govhomepage: www.watershedmanagement.govFlood ready: www.floodready.vermont.gov

Maintenance and Operations Bureau District 8
680 Lower Newton Rd
St Albans, VT 05478
Jim.cota@vermont.gov

[phone] 802-527-5501
[fax] 802-524-7940
[ttd] 800-253-0191

April 12, 2016

Alan May
Agency of Transportation
Municipal Assistance Bureau
1 National Life Drive
Montpelier, Vermont 05633
Phone (802) 828-4585

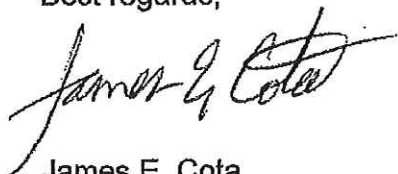
To the Review Committee,

VTrans District 8 supports the Town of Enosburg's FY17 Better Roads grant proposal to ditch Woodard Neighborhood Road according to adopted Codes and Standards and the Vermont Better Backroads Manual.

The existing ditch is steep and "V" shaped. Reconstructing to a "U" shaped ditch and adding properly sized riprap will certainly help reduce sediment leaving the Town right-of-way. Our streams will be better protected. I am confident the Town Highway crew will periodically remove trapped silt from the ditch check dams before it builds up to a point when it is transported downstream.

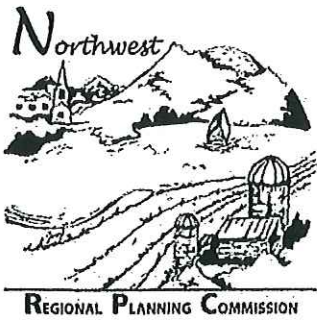
District 8 supports the Town of Enosburg and is ready to provide technical expertise when requested.

Best regards,



James E. Cota
VTrans Maintenance and Operations Bureau
District 8 Project Manager
802-782-0802

CC: Bethany Remmers, Northwest Regional Planning Commission



75 Fairfield Street • St. Albans, VT 05478 • (802) 524-5958 • Fax (802) 527-2948

April 12, 2016

Joey Clark, Road Foreman
Town of Enosburgh
PO Box 465
Enosburg Falls, VT 05450

Dear Joey:

The Northwest Regional Planning Commission (NRPC) is pleased to support the Town of Enosburgh's Better Roads Program grant applications. It is my understanding that the Town is seeking funds to reshape and stone line almost 700 ft. of ditching along Woodward Neighborhood Road and to complete a road erosion inventory/capital budget plan.

Both of these projects will have positive water quality benefits. Lining the ditch with rock will result in reduced erosion in the ditch and eliminate potential sediment and nutrient from entering the Missiquoi River and ultimately Lake Champlain. The capital budget will enable the Town to build upon your past projects and accelerate your efforts to address water quality issues.

Good luck with your project!

Sincerely:

Bethany Remmers
Assistant Director

Grand Isle • Highgate • Isle La Motte • Montgomery • North Hero • Richford • St. Albans C • St. Albans T • Sheldon • South Hero • Swanton T • Swanton V

VERMONT LEAGUE OF CITIES & TOWNS



Issue Date: 01/01/2016

Policy Number: P1862016

CERTIFICATE OF COVERAGE

| | |
|---|---|
| Named Member Town of Enosburgh, incl. Enosburgh Fire Dept., incl. Enosburgh Ambulance Service, and incl. Enosburgh Public Library Attn: Billie Jo Draper 239 Main Street Enosburgh Falls, VT 05450 | Company Affording Coverage VLCT Property & Casualty Intermunicipal Fund, Inc. 89 Main Street Suite 4 Montpelier, VT 05602 |
|---|---|

| Type of Coverage | Term | Limits of Liability |
|---|---|---|
| Commercial General Liability Coverage Includes: Premises/Operations Products/Completed Operations Personal Injury Contractual Independent Contractors Broad Form Property Damage | 01/01/2016 - 01/01/2017 | \$10,000,000 Per Occurrence |
| Automobile Liability Any Auto Hired Autos Non-Owned Autos Comprehensive/Collision | 01/01/2016 - 01/01/2017 | \$10,000,000 Per Occurrence ACV |
| Workers Compensation And Employers Liability | 01/01/2016 - 01/01/2017 | Statutory \$5,000,000 Per Occurrence and in the Aggregate |
| Property | 01/01/2016 - 01/01/2017 | \$10,000,000 Per Occurrence |
| Other: The State of Vermont and its officers and employees are included as an additional covered party (additional insured), but only in respect to operations by or on behalf of the Named Member, as respects the grant. | | |
| Certificate Holder: State of Vermont | This Certificate is issued as a matter of information only and confers no rights upon the Certificate Holder. This Certificate does not amend, extend or alter the coverage afforded by the policies above. Should any of the above described policies be cancelled before the expiration date thereof, the Issuing Insurer will endeavor to mail 30 days written notice to the Certificate Holder named to the left, but failure to do so shall impose no obligation or liability of any kind upon the Insurer, its agents, or representatives. | |

Authorized Representative: _____